

Data File : VW008973.D
Acq On : 04 Mar 2019 21:30
Operator : SY/VA
Sample : K1688-01
Misc : 6.21G/5ML/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-A

Quant Time: Mar 05 06:30:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	320954	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	498010	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	440235	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	202915	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	181941	60.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.88%	
35) Dibromofluoromethane	7.88	113	158905	53.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.28%	
50) Toluene-d8	10.32	98	589670	51.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.18%	
62) 4-Bromofluorobenzene	12.62	95	202712	44.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.70%	

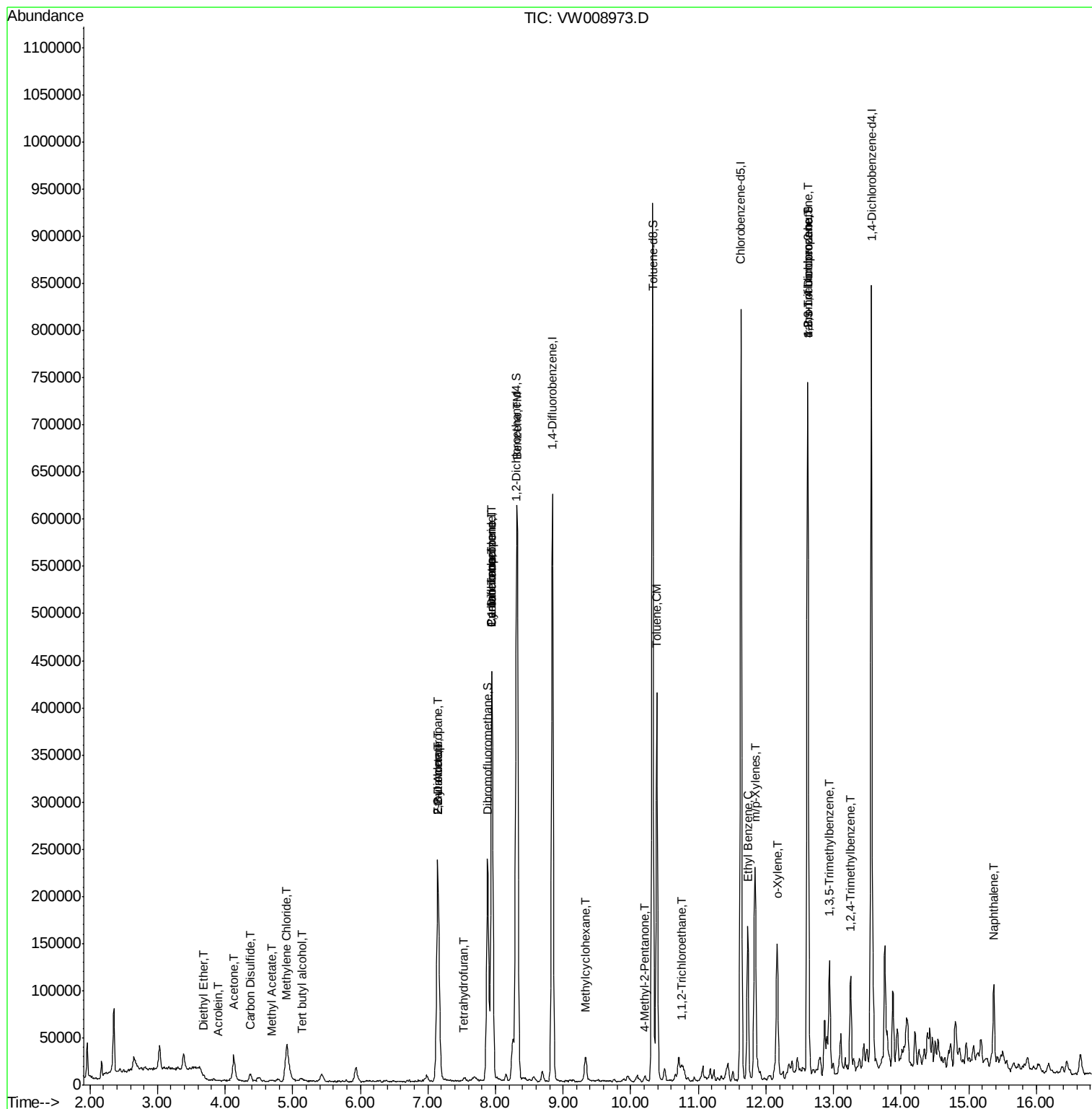
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.69	74	2016	1.215	ug/l	89
11) Tert butyl alcohol	5.13	59	1667	6.220	ug/l #	70
13) Acrolein	3.90	56	375	21.002	ug/l #	42
16) Acetone	4.13	43	47035	67.409	ug/l	95
17) Carbon Disulfide	4.38	76	14264	1.530	ug/l	98
18) Methyl Acetate	4.69	43	2410	1.456	ug/l #	77
20) Methylene Chloride	4.92	84	27905	3.352	ug/l #	88
25) 2-Butanone	7.15	43	20716	21.236	ug/l #	80
26) 2,2-Dichloropropane	7.15	77	15231	2.992	ug/l #	54
29) Tetrahydrofuran	7.53	42	2706	4.353	ug/l #	76
31) Cyclohexane	7.95	56	13637	2.403	ug/l #	63
36) 1,1-Dichloropropene	7.94	75	23784	4.906	ug/l #	50
37) Ethyl Acetate	7.15	43	20716	9.189	ug/l #	35
38) Carbon Tetrachloride	7.95	117	31942	6.248	ug/l #	16
39) Methylcyclohexane	9.34	83	9742	1.611	ug/l #	82
40) Benzene	8.32	78	453494	34.262	ug/l	100
51) 4-Methyl-2-Pentanone	10.21	43	3163	1.385	ug/l #	82
52) Toluene	10.38	92	170571	18.988	ug/l	100
55) 1,1,2-Trichloroethane	10.76	97	2573	1.043	ug/l #	21
67) Ethyl Benzene	11.73	91	107725	6.510	ug/l	99
68) m/p-Xylenes	11.83	106	61878	9.359	ug/l	97
69) o-Xylene	12.17	106	36781	5.927	ug/l	96
76) 1,2,3-Trichloropropane	12.62	75	106680	63.677	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	39655	3.280	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	106680	154.803	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.26	105	55093	4.403	ug/l	98
95) Naphthalene	15.37	128	76489	10.260	ug/l	99

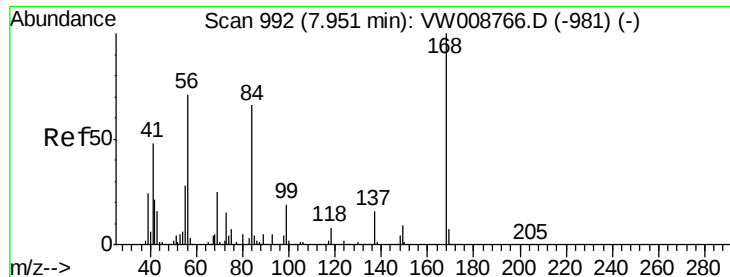
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampleId :

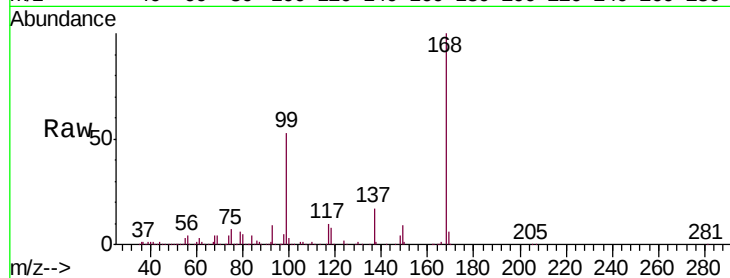
JC-03-030119-A

Tgt Ion:168 Resp: 320954

Ion Ratio Lower Upper

168 100

99 53.0 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

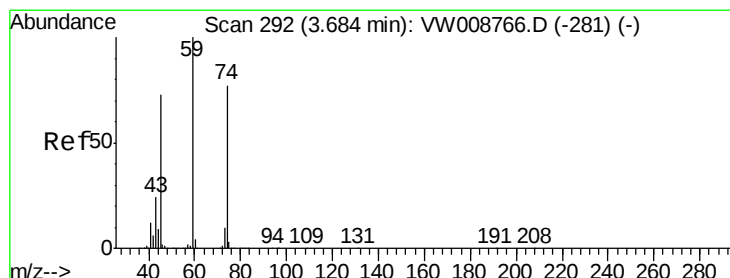
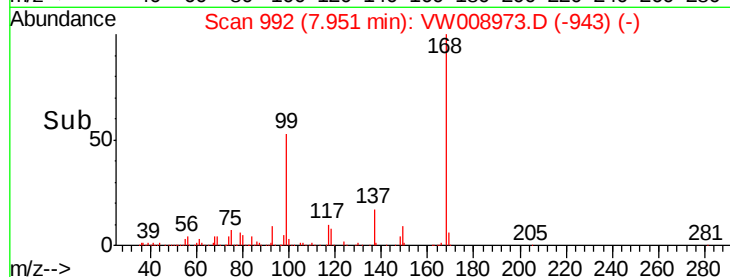
100000

50000

0

7.90 8.00

Time-->



#8

Diethyl Ether

Concen: 1.215 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW008973.D

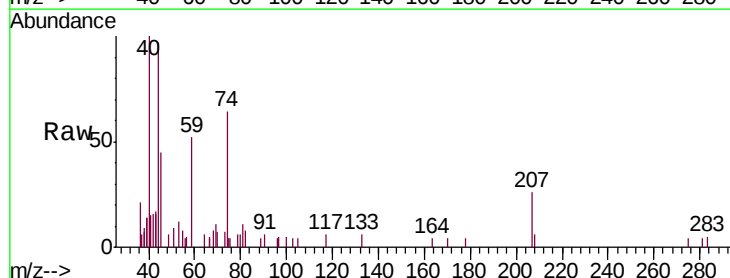
Acq: 04 Mar 2019 21:30

Tgt Ion: 74 Resp: 2016

Ion Ratio Lower Upper

74 100

45 89.2 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.69

1000

800

600

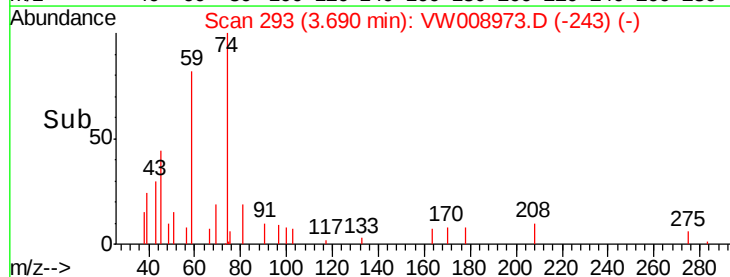
400

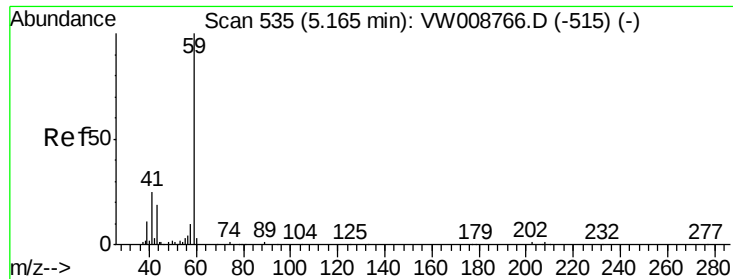
200

0

3.60 3.65 3.70 3.75

Time-->

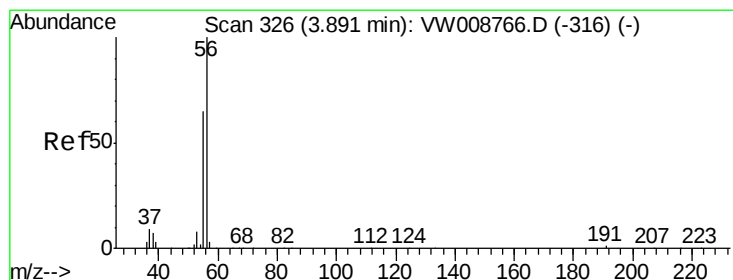
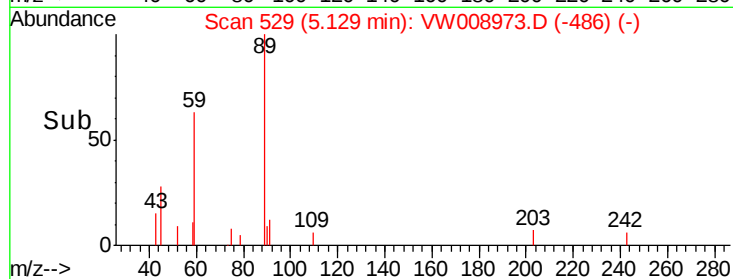
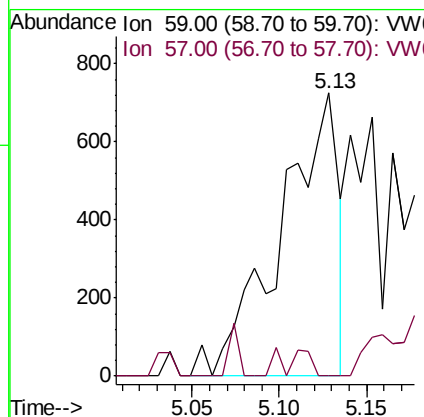
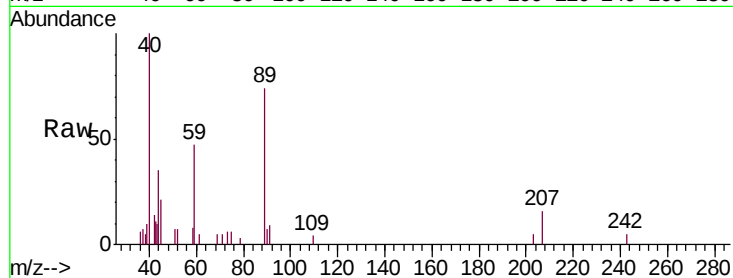




#11
Tert butyl alcohol
Concen: 6.220 ug/l
RT: 5.13 min Scan# 529
Delta R.T. -0.04 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

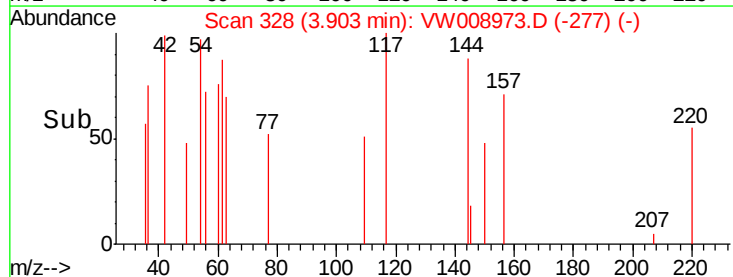
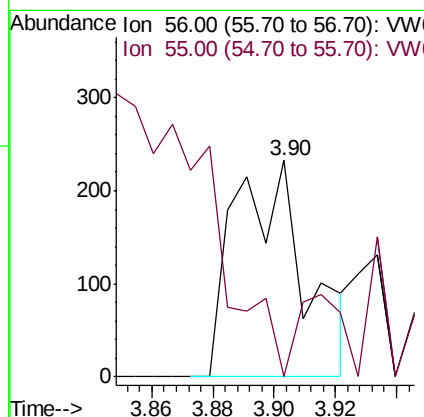
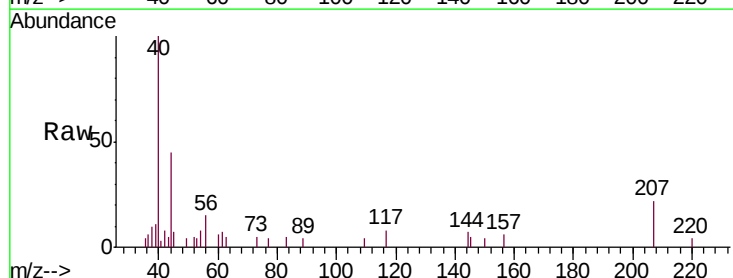
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-A

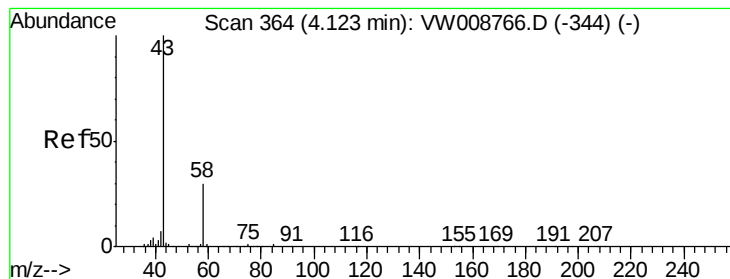
Tgt Ion: 59 Resp: 1667
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#



#13
Acrolein
Concen: 21.002 ug/l
RT: 3.90 min Scan# 328
Delta R.T. 0.01 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

Tgt Ion: 56 Resp: 375
Ion Ratio Lower Upper
56 100
55 23.2 56.9 85.3#





#16

Acetone

Concen: 67.409 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampleId :

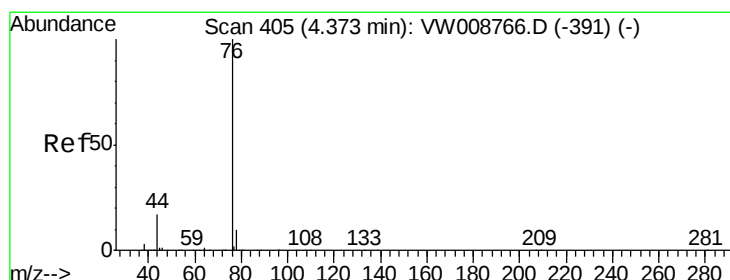
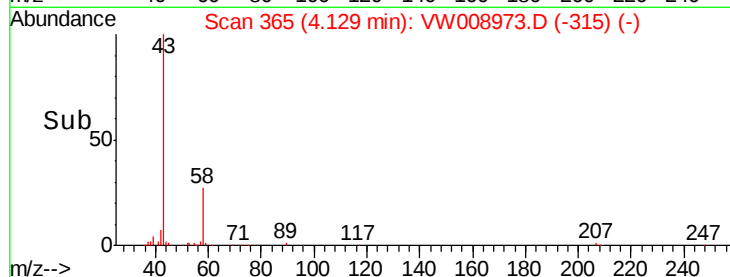
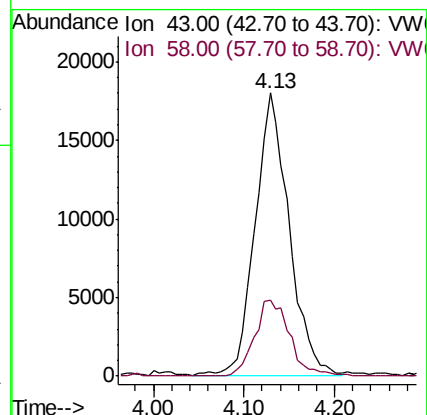
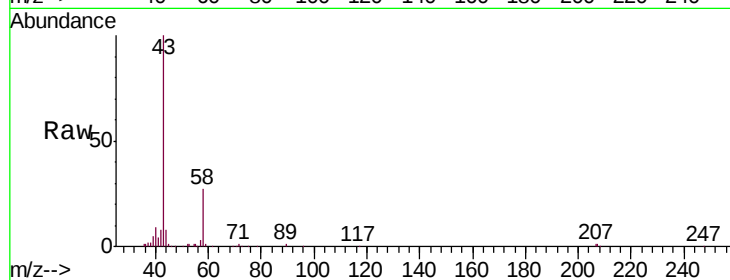
JC-03-030119-A

Tgt Ion: 43 Resp: 47035

Ion Ratio Lower Upper

43 100

58 26.7 23.8 35.6



#17

Carbon Disulfide

Concen: 1.530 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW008973.D

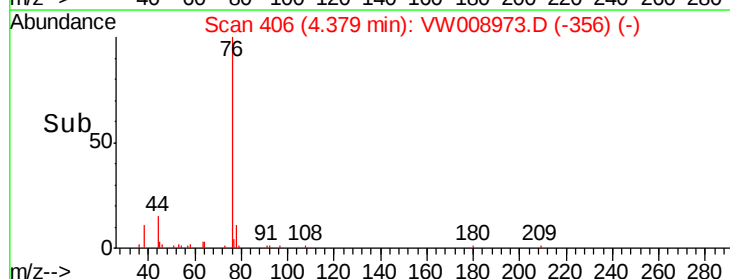
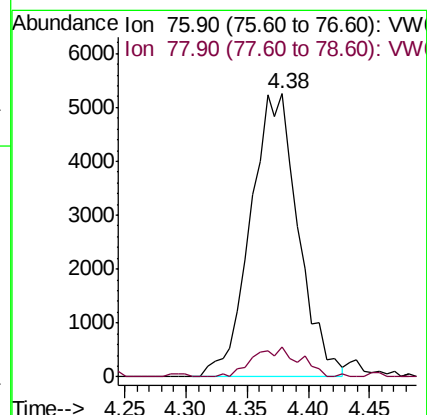
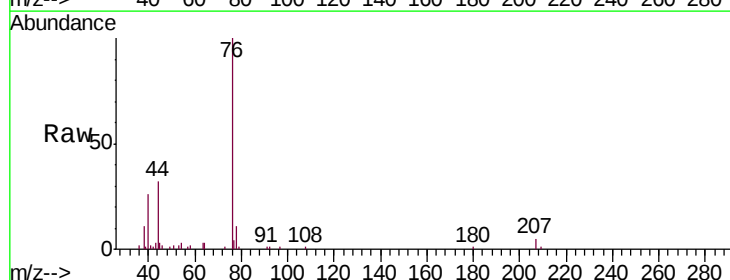
Acq: 04 Mar 2019 21:30

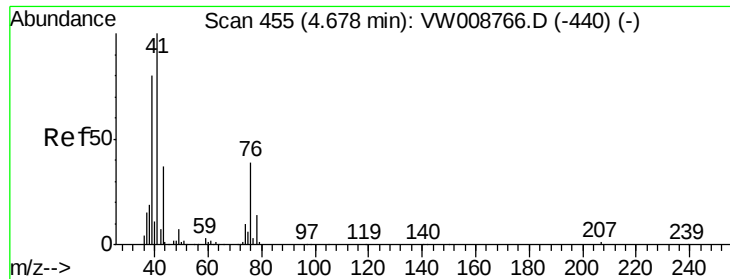
Tgt Ion: 76 Resp: 14264

Ion Ratio Lower Upper

76 100

78 10.6 7.8 11.8

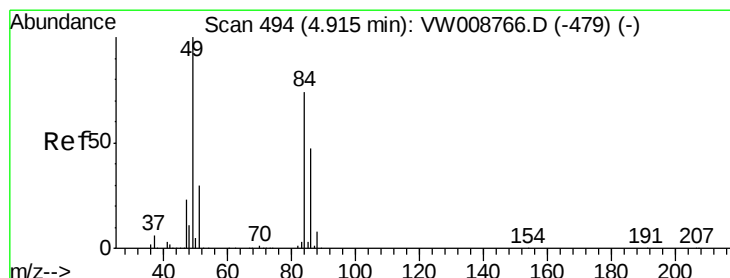
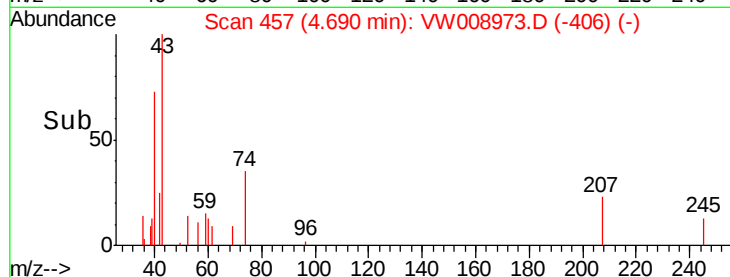
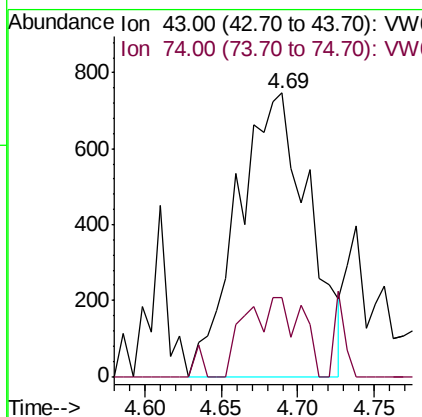
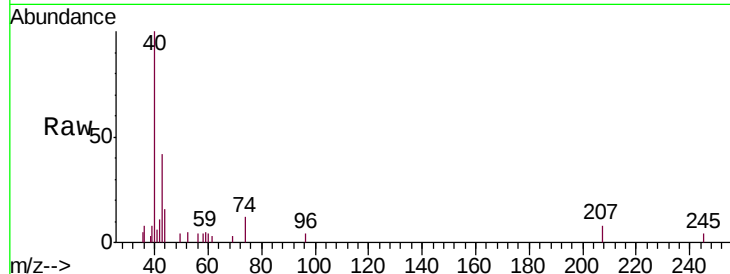




#18
Methyl Acetate
Concen: 1.456 ug/l
RT: 4.69 min Scan# 457
Delta R.T. 0.01 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

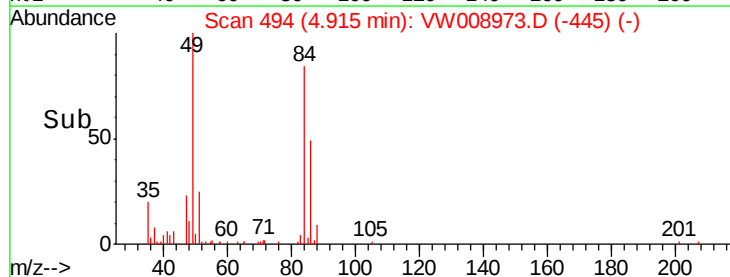
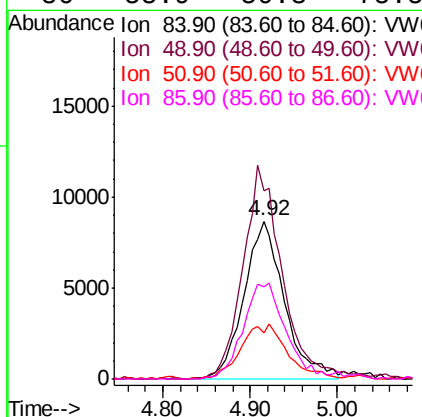
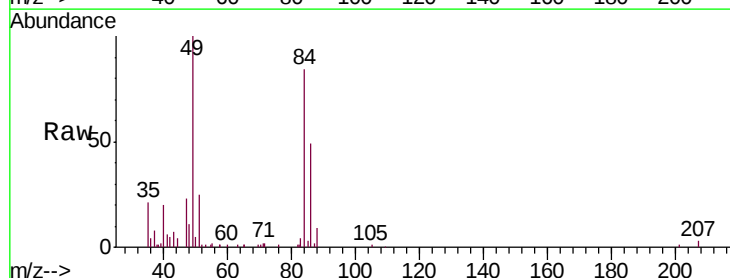
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-A

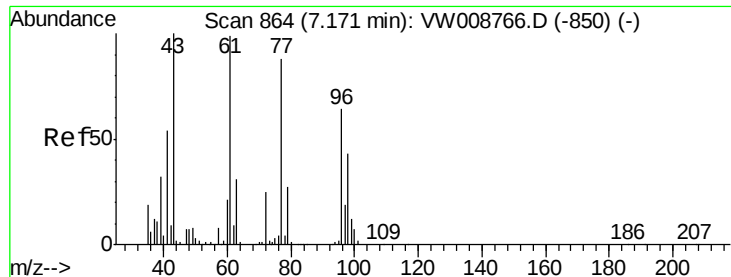
Tgt Ion: 43 Resp: 2410
Ion Ratio Lower Upper
43 100
74 12.8 19.4 29.2#



#20
Methylene Chloride
Concen: 3.352 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

Tgt Ion: 84 Resp: 27905
Ion Ratio Lower Upper
84 100
49 119.1 108.2 162.2
51 29.3 32.7 49.1#
86 58.9 50.3 75.5





#25

2-Butanone

Concen: 21.236 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampleId :

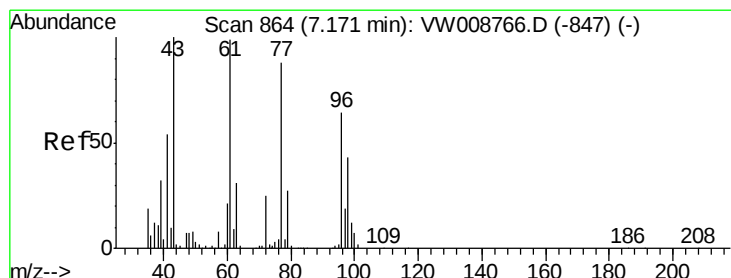
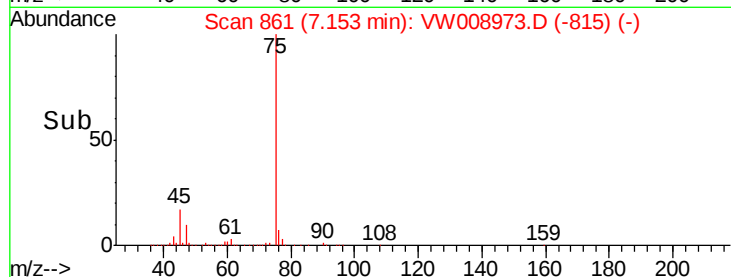
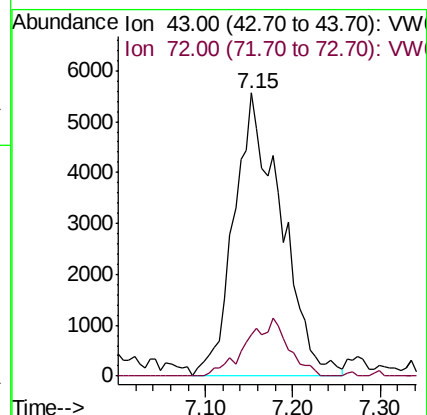
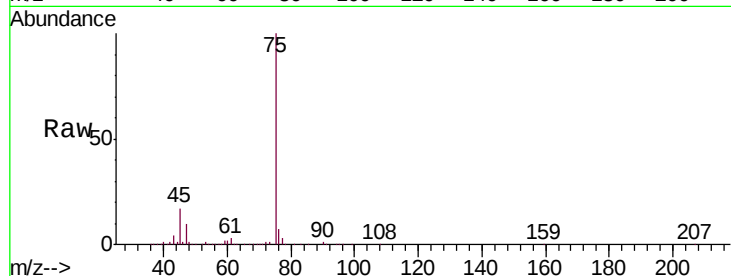
JC-03-030119-A

Tgt Ion: 43 Resp: 20716

Ion Ratio Lower Upper

43 100

72 14.6 19.7 29.5#



#26

2,2-Dichloropropane

Concen: 2.992 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008973.D

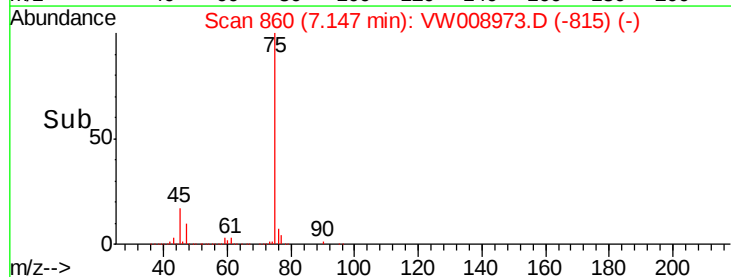
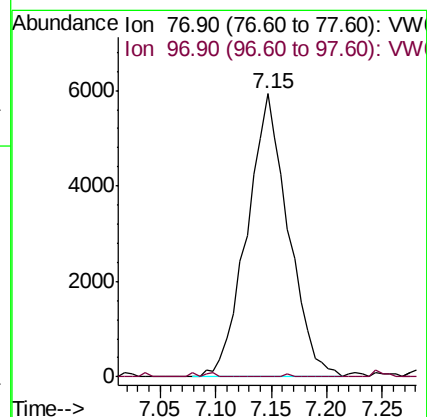
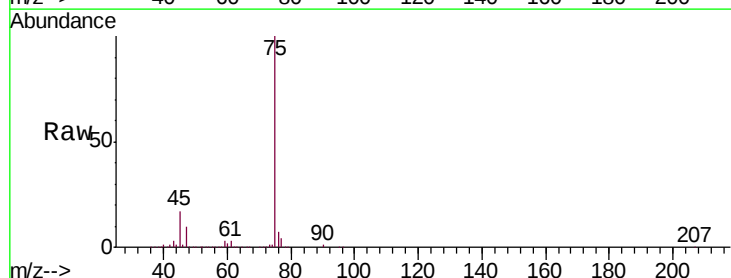
Acq: 04 Mar 2019 21:30

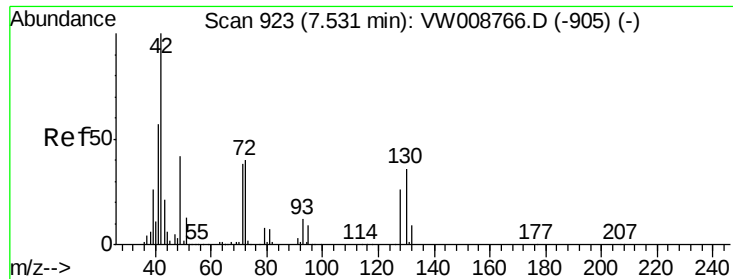
Tgt Ion: 77 Resp: 15231

Ion Ratio Lower Upper

77 100

97 0.2 11.0 33.0#

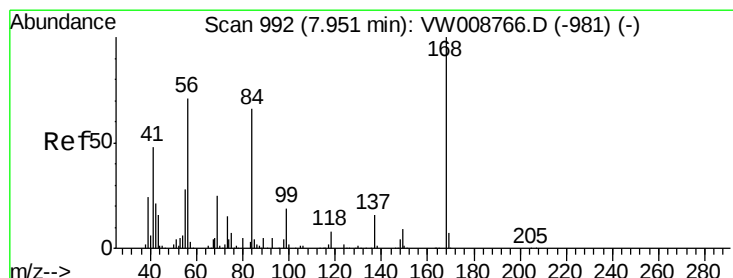
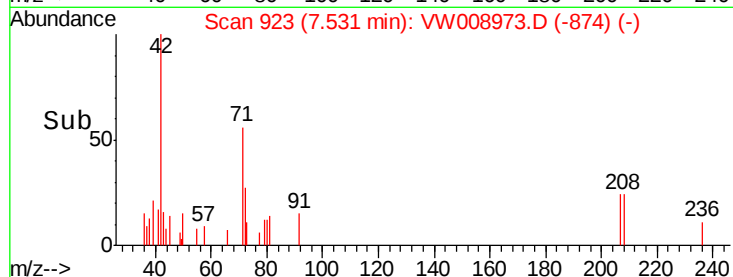
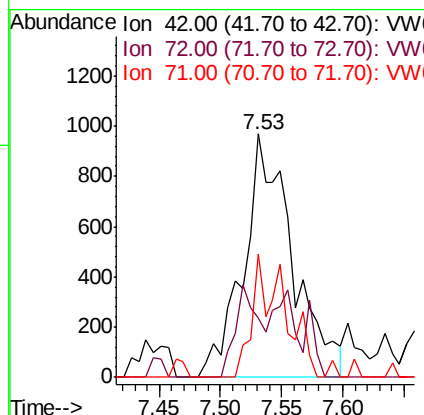
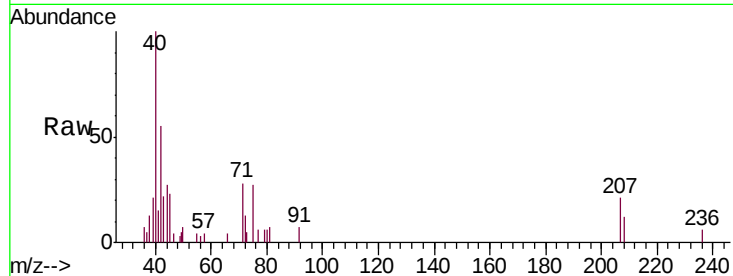




#29
Tetrahydrofuran
Concen: 4.353 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

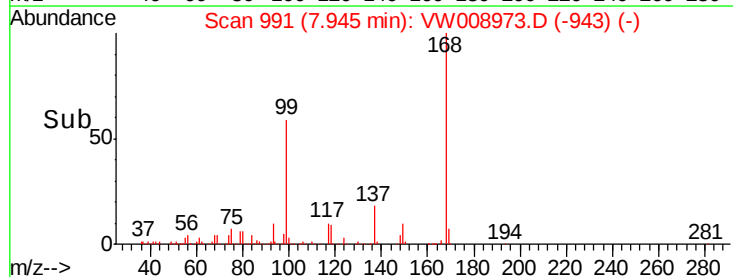
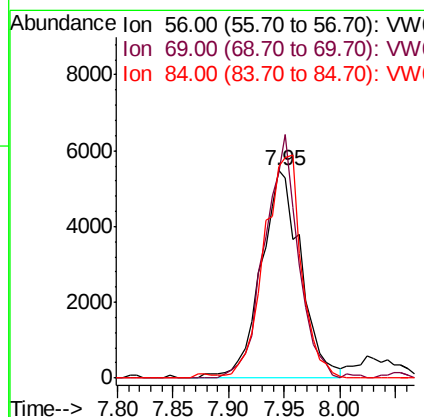
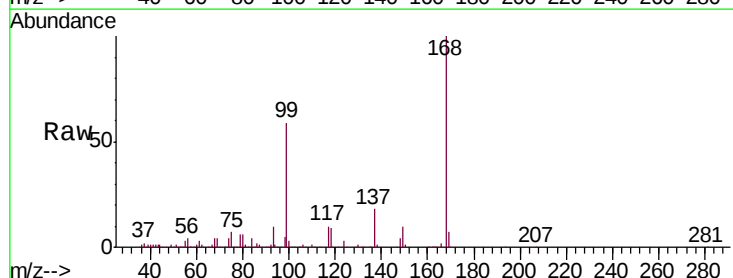
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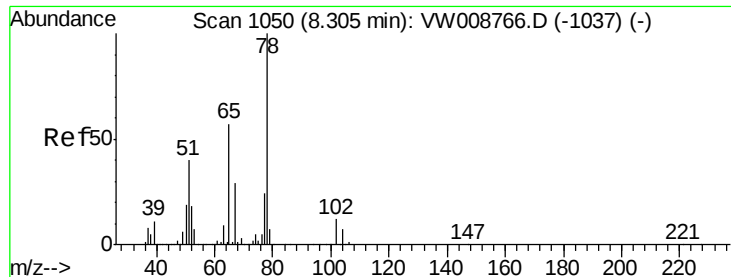
Tgt Ion: 42 Resp: 2706
Ion Ratio Lower Upper
42 100
72 18.1 32.7 49.1#
71 33.0 31.3 46.9



#31
Cyclohexane
Concen: 2.403 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

Tgt Ion: 56 Resp: 13637
Ion Ratio Lower Upper
56 100
69 99.1 28.2 42.4#
84 101.9 74.1 111.1





#33

1,2-Dichloroethane-d4

Concen: 60.440 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampleId :

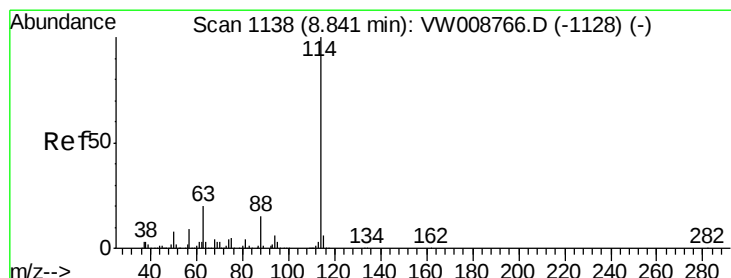
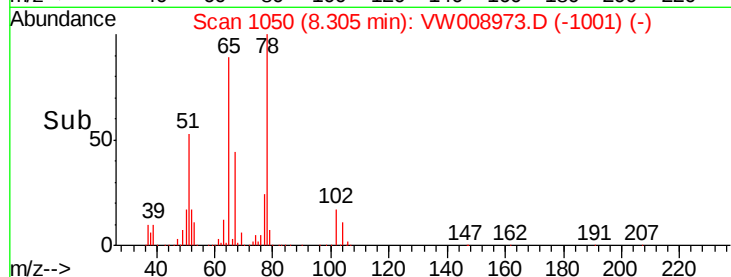
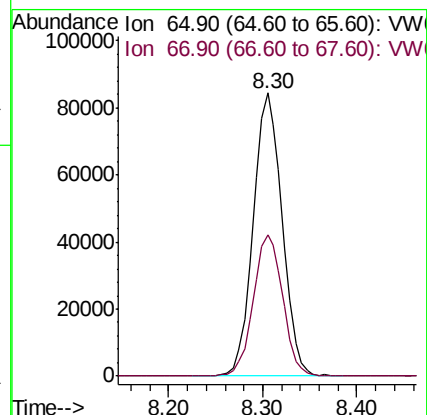
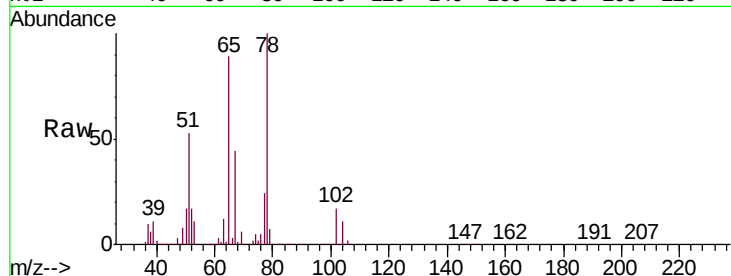
JC-03-030119-A

Tgt Ion: 65 Resp: 181941

Ion Ratio Lower Upper

65 100

67 50.9 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

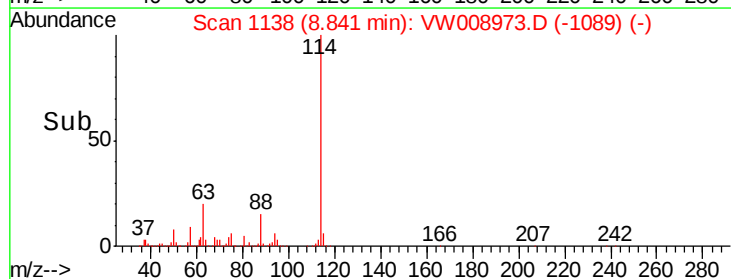
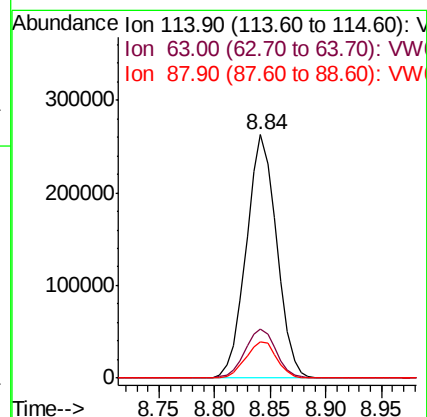
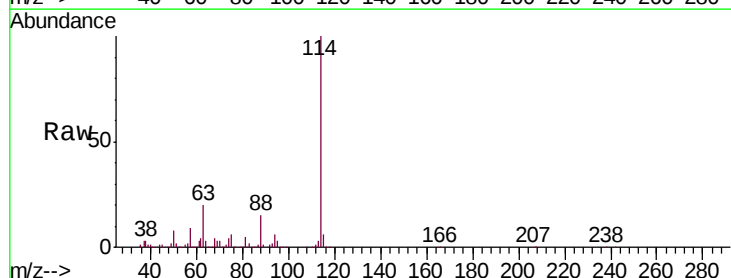
Tgt Ion: 114 Resp: 498010

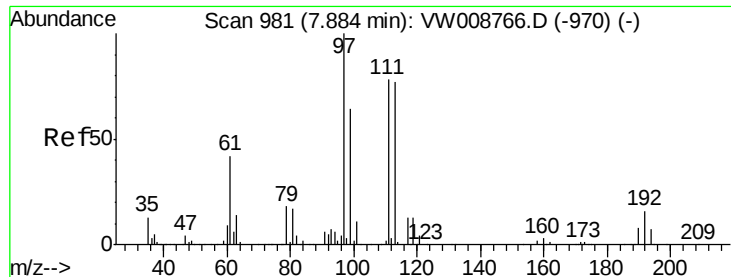
Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.8

88 14.8 0.0 30.4





#35

Dibromofluoromethane

Concen: 53.144 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-A

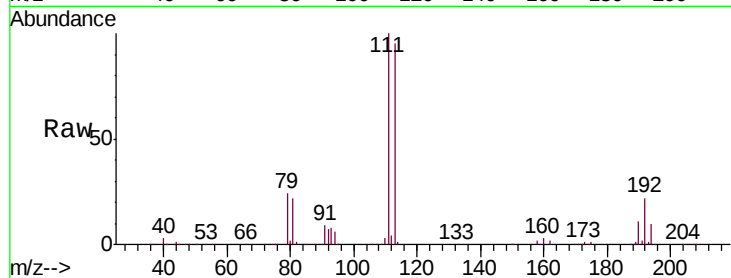
Tgt Ion:113 Resp: 158905

Ion Ratio Lower Upper

113 100

111 100.4 81.9 122.9

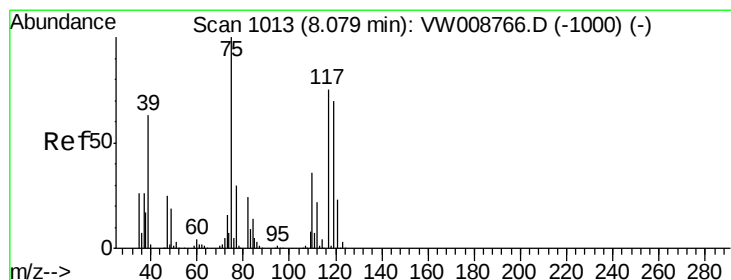
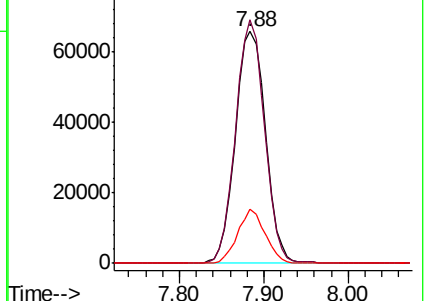
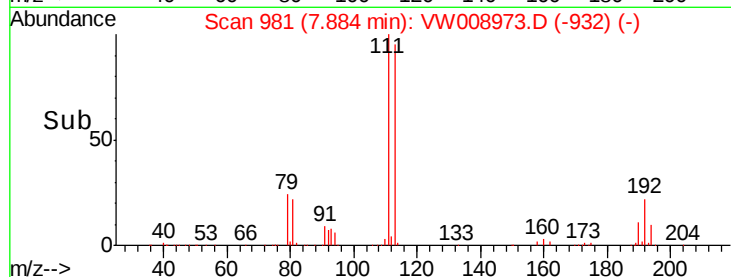
192 21.1 17.1 25.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.906 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

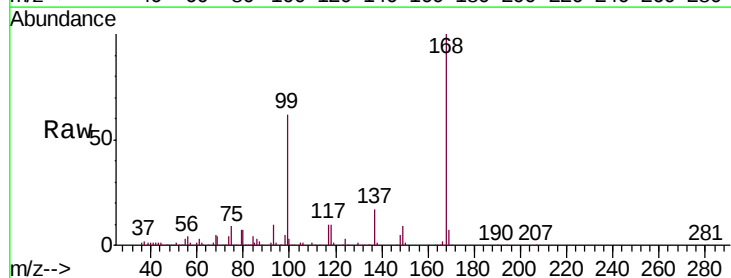
Tgt Ion: 75 Resp: 23784

Ion Ratio Lower Upper

75 100

110 8.6 17.5 52.6#

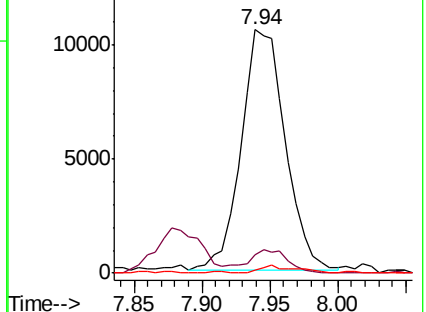
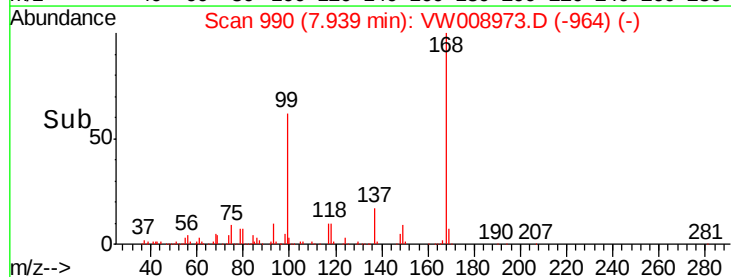
77 0.0 24.5 36.7#

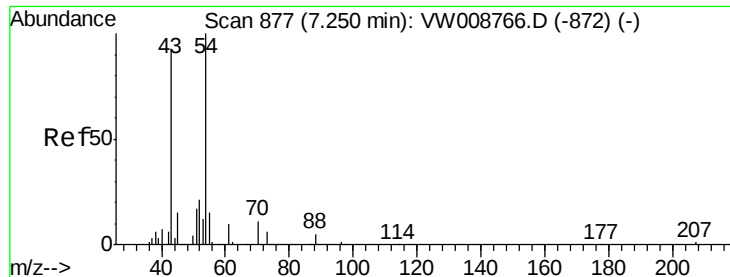


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

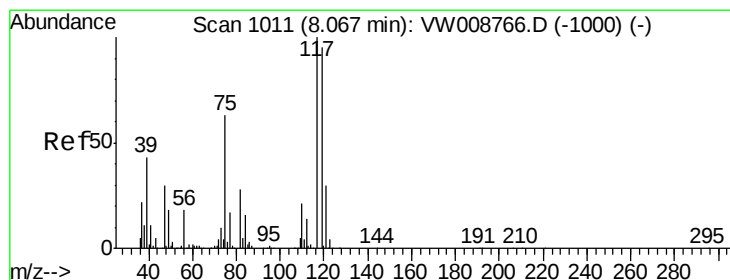
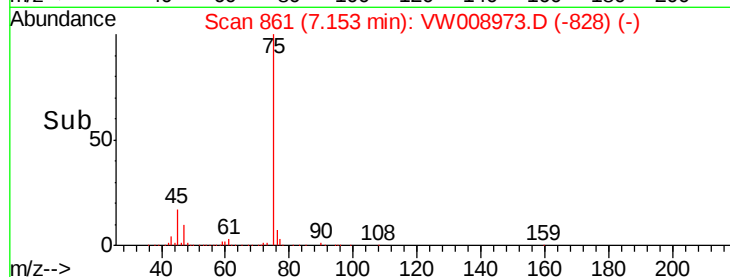
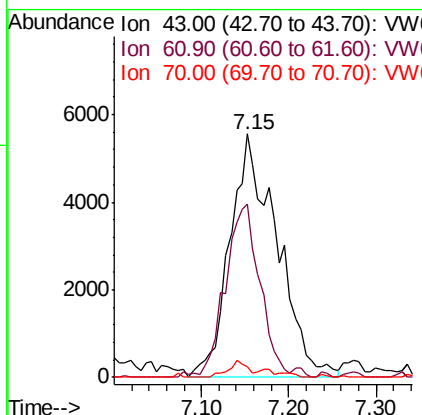
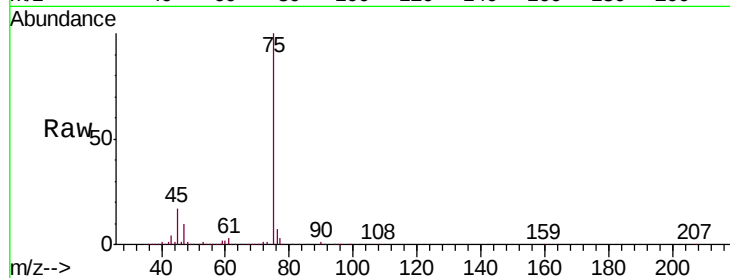




#37
Ethyl Acetate
Concen: 9.189 ug/l
RT: 7.15 min Scan# 861
Delta R.T. -0.10 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

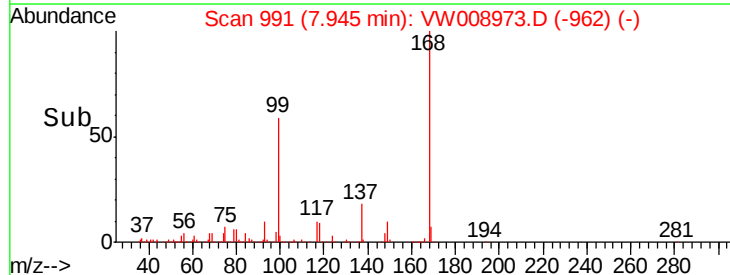
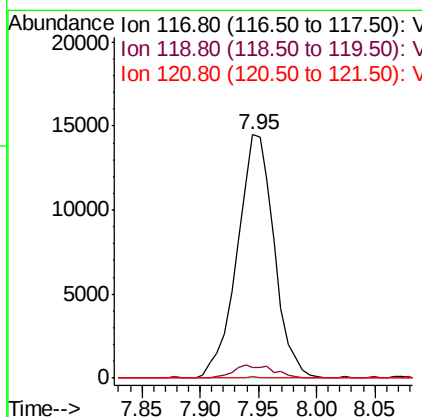
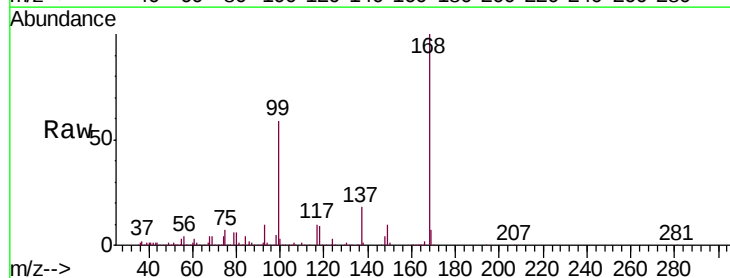
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-A

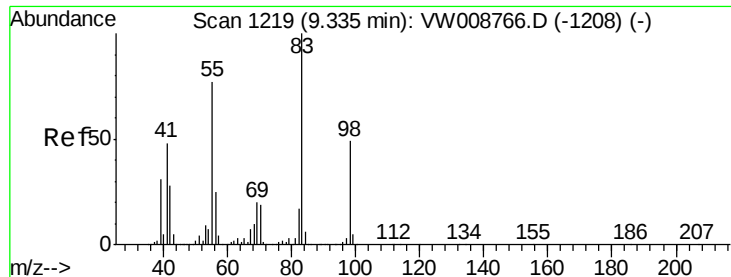
Tgt Ion: 43 Resp: 20716
Ion Ratio Lower Upper
43 100
61 52.6 9.8 14.8#
70 3.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 6.248 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

Tgt Ion: 117 Resp: 31942
Ion Ratio Lower Upper
117 100
119 4.6 76.1 114.1#
121 0.5 24.0 36.0#

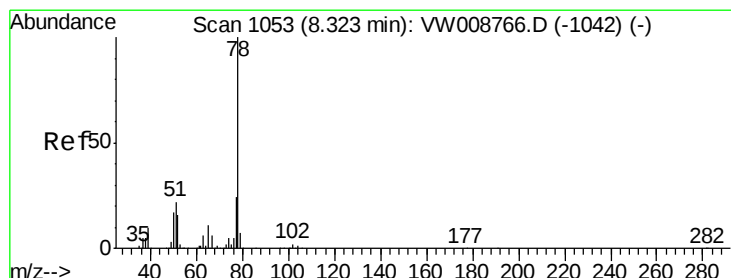
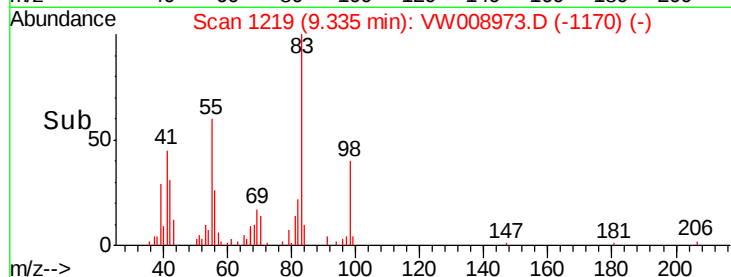
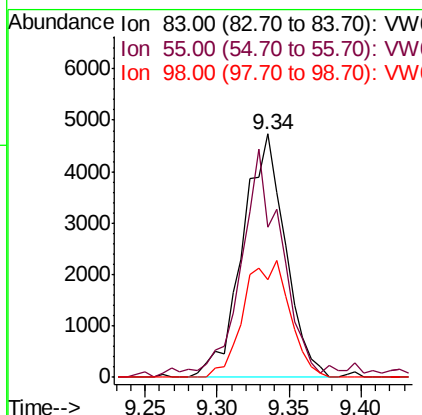
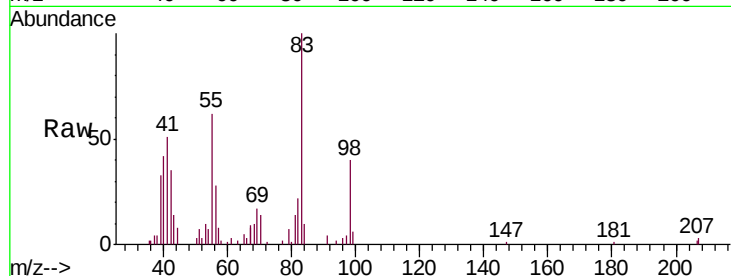




#39
Methylcyclohexane
Concen: 1.611 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

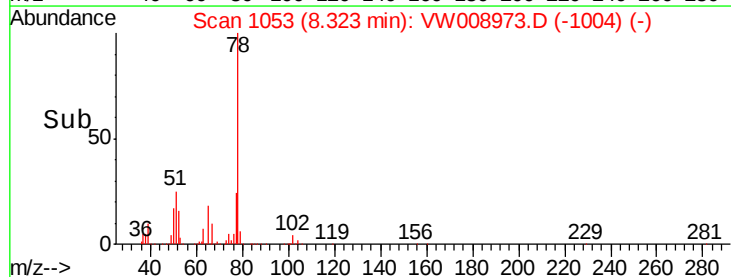
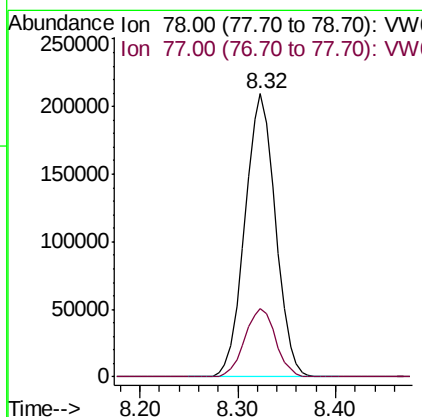
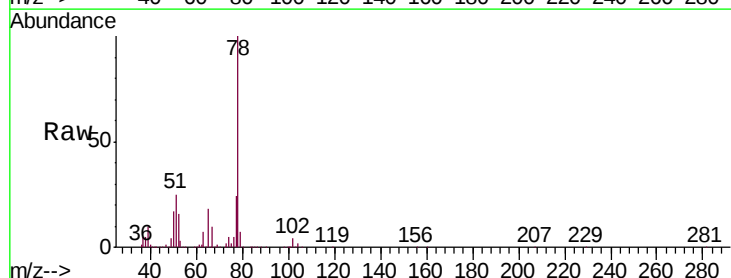
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-A

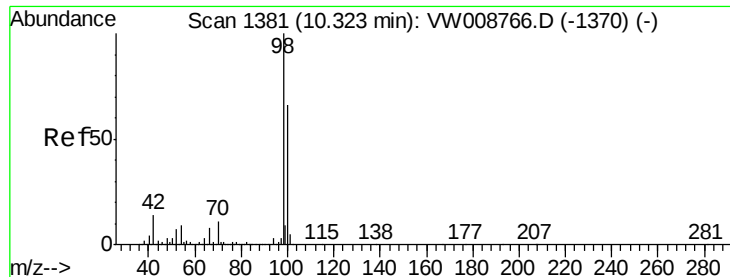
Tgt Ion: 83 Resp: 9742
Ion Ratio Lower Upper
83 100
55 58.7 61.2 91.8#
98 40.1 39.4 59.2



#40
Benzene
Concen: 34.262 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

Tgt Ion: 78 Resp: 453494
Ion Ratio Lower Upper
78 100
77 24.2 19.3 28.9





#50

Toluene-d8

Concen: 51.086 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampleId :

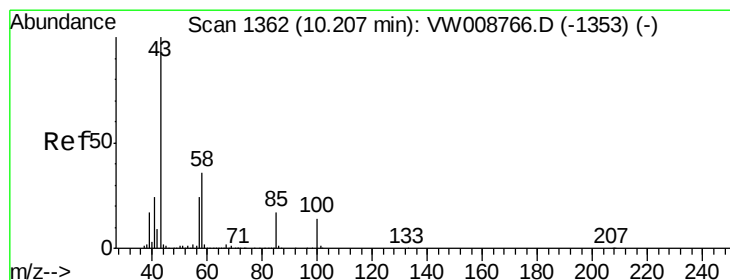
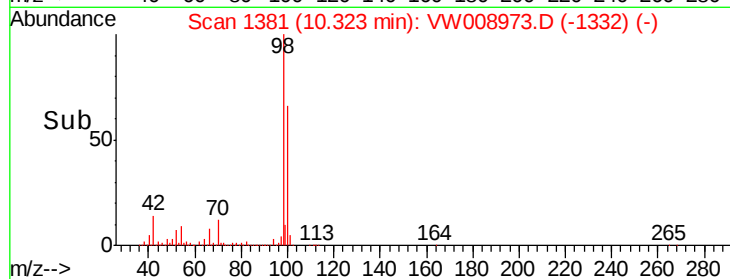
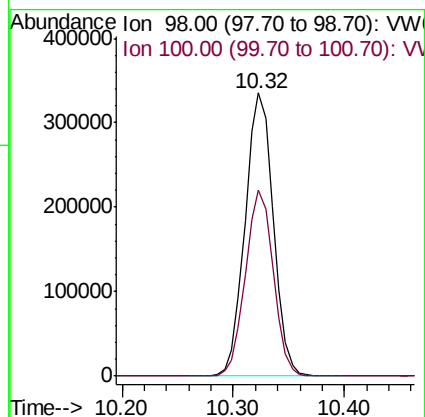
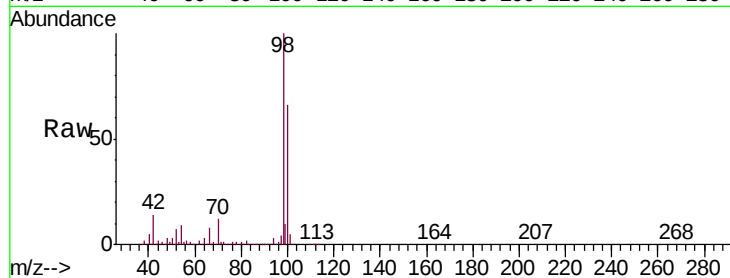
JC-03-030119-A

Tgt Ion: 98 Resp: 589670

Ion Ratio Lower Upper

98 100

100 64.9 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 1.385 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW008973.D

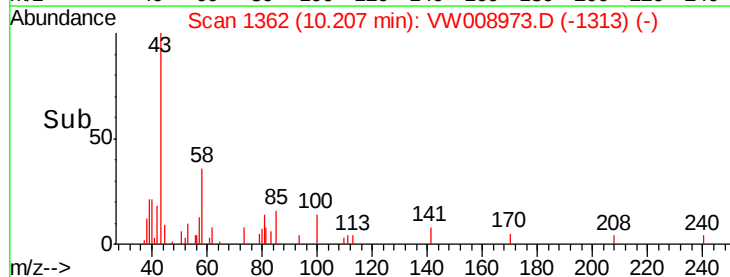
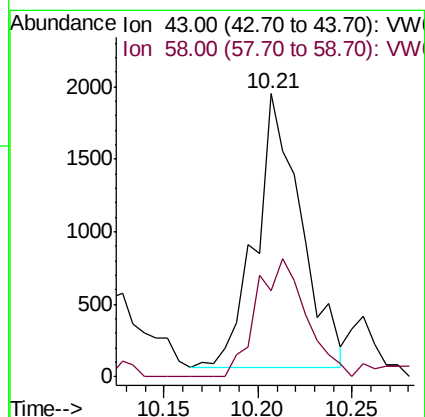
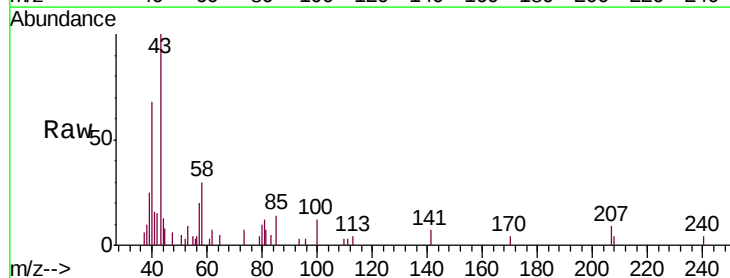
Acq: 04 Mar 2019 21:30

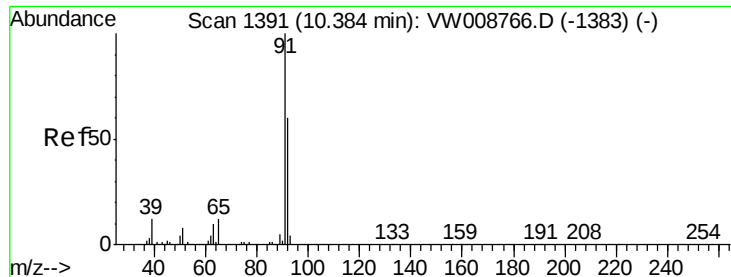
Tgt Ion: 43 Resp: 3163

Ion Ratio Lower Upper

43 100

58 46.9 29.1 43.7#





#52

Toluene

Concen: 18.988 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampleId :

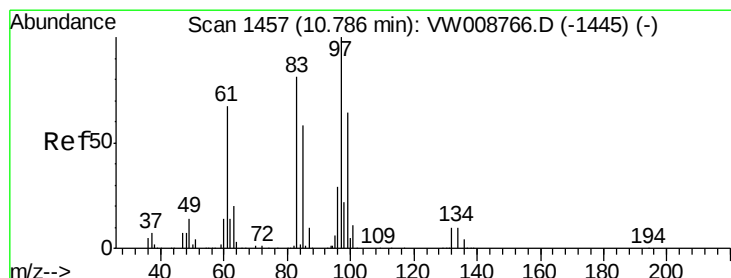
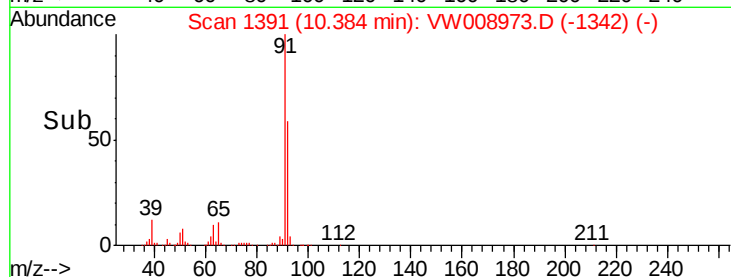
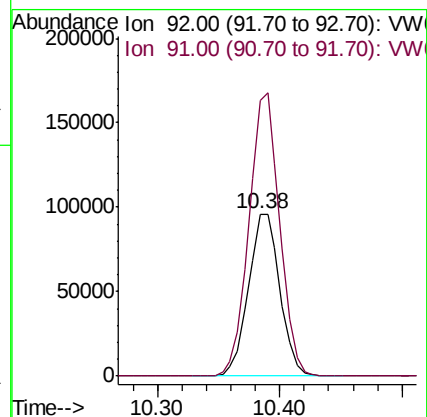
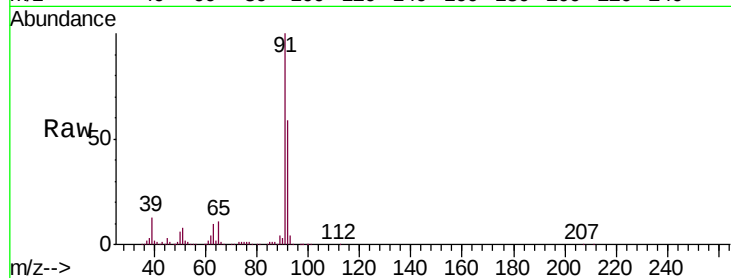
JC-03-030119-A

Tgt Ion: 92 Resp: 170571

Ion Ratio Lower Upper

92 100

91 171.0 136.9 205.3



#55

1,1,2-Trichloroethane

Concen: 1.043 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

Tgt Ion: 97 Resp: 2573

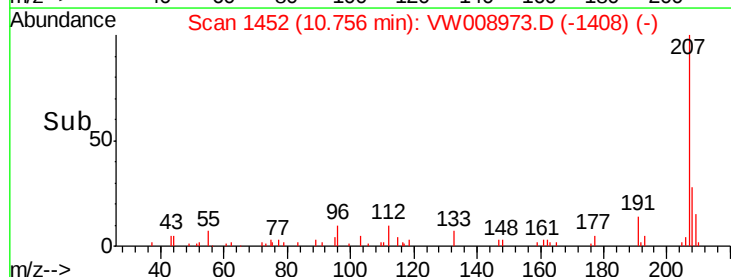
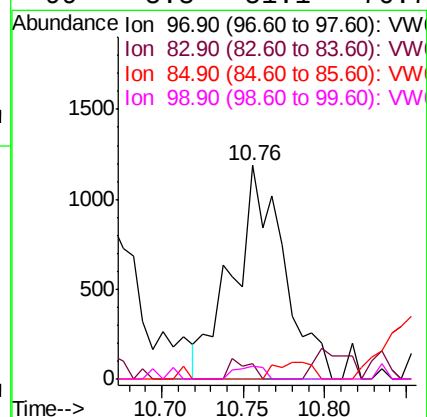
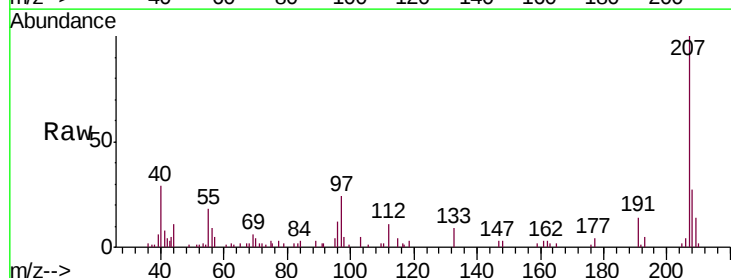
Ion Ratio Lower Upper

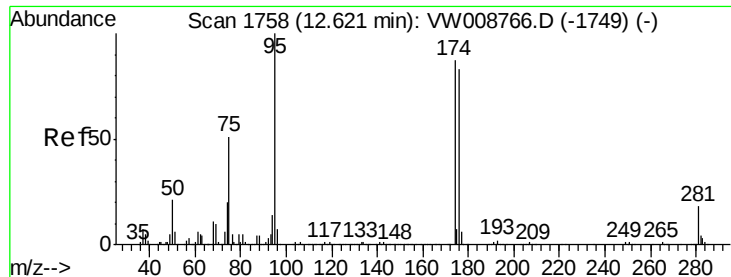
97 100

83 7.0 65.0 97.6#

85 0.0 46.0 69.0#

99 5.8 51.1 76.7#

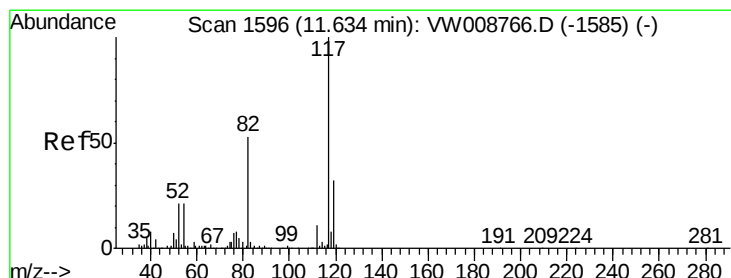
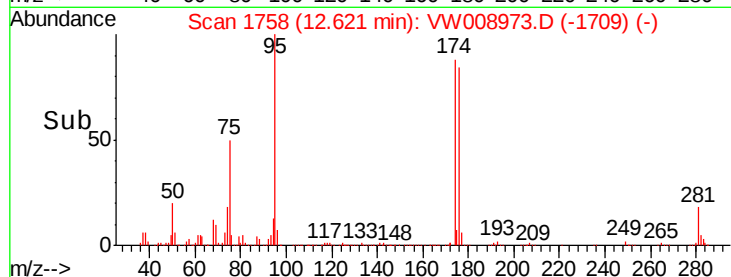
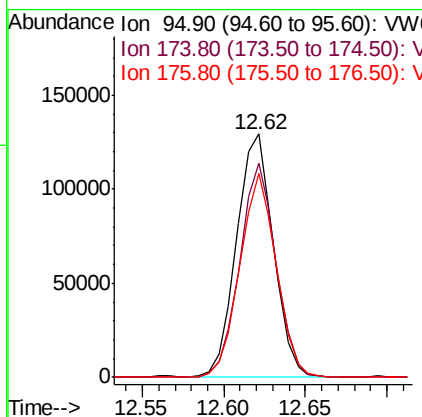
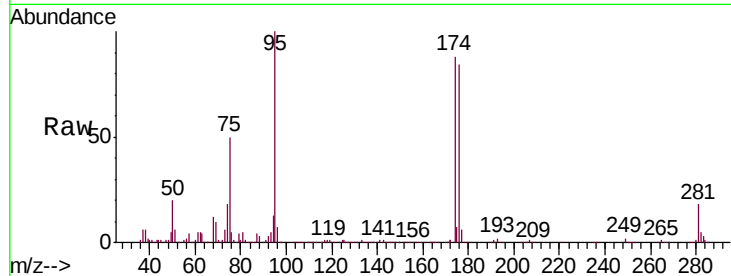




#62
4-Bromofluorobenzene
Concen: 44.853 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

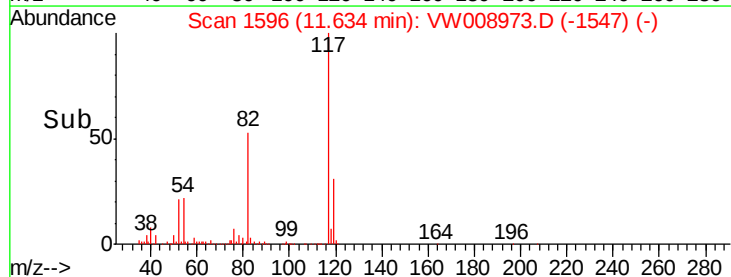
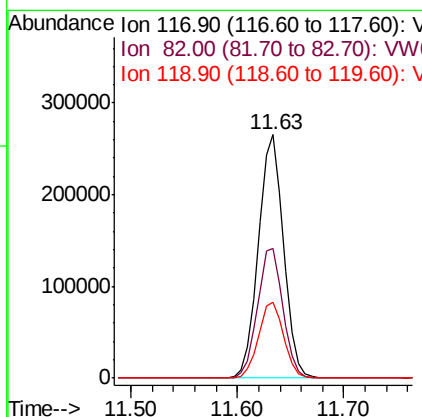
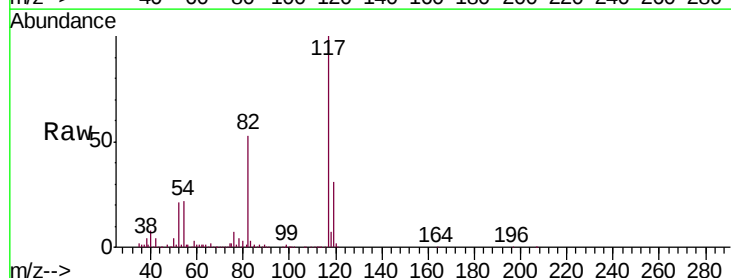
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-A

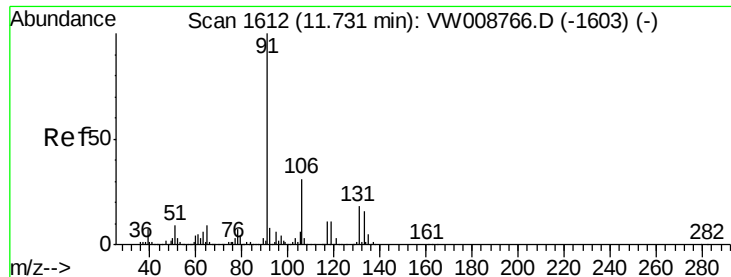
Tgt Ion: 95 Resp: 202712
Ion Ratio Lower Upper
95 100
174 86.7 0.0 169.2
176 83.2 0.0 163.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

Tgt Ion: 117 Resp: 440235
Ion Ratio Lower Upper
117 100
82 53.4 42.2 63.4
119 31.3 25.9 38.9

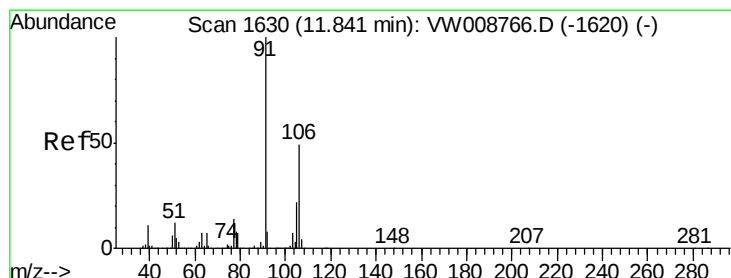
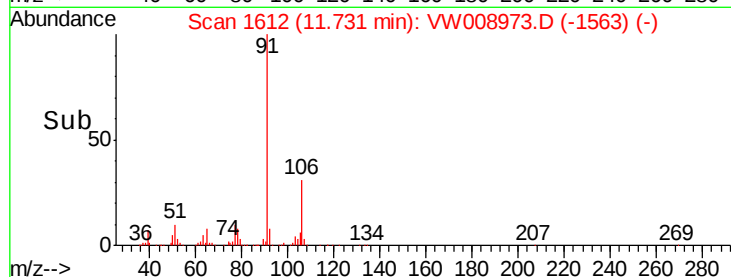
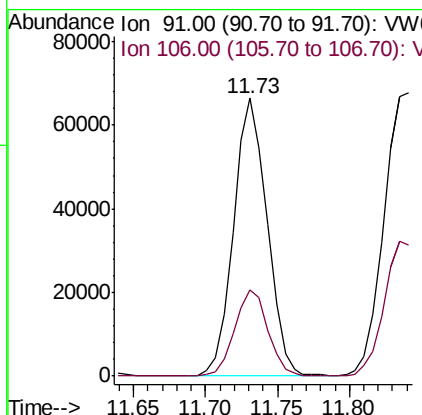
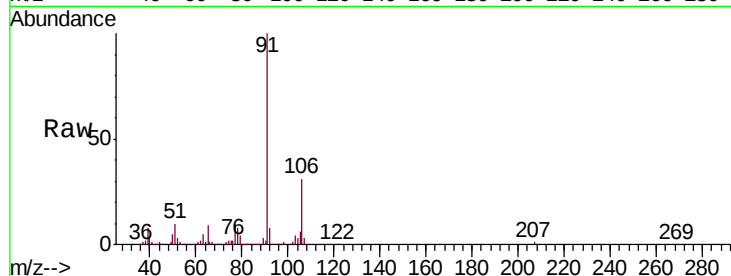




#67
Ethyl Benzene
Concen: 6.510 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

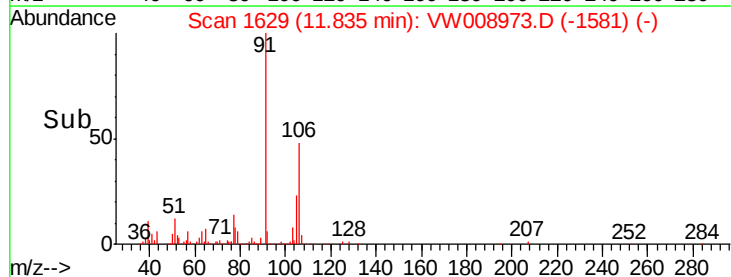
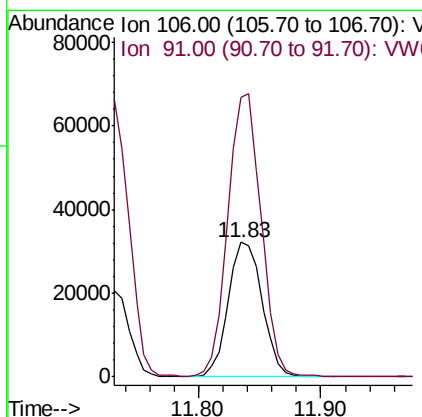
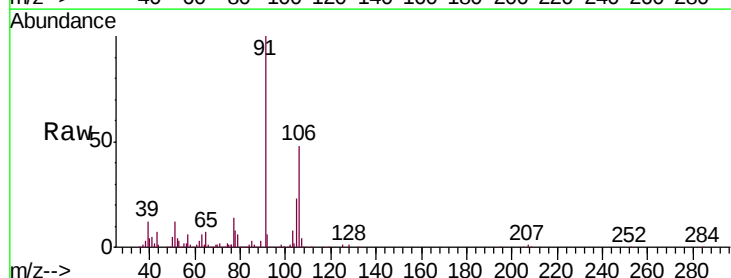
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-A

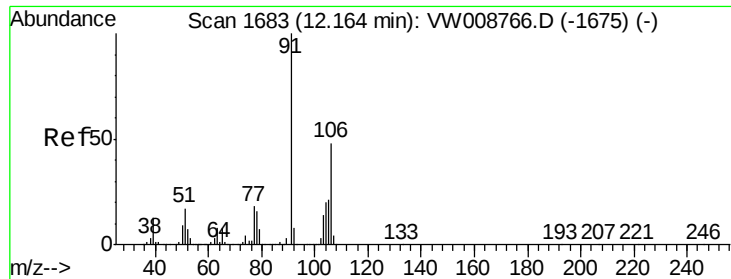
Tgt Ion: 91 Resp: 107725
Ion Ratio Lower Upper
91 100
106 30.9 25.0 37.6



#68
m/p-Xylenes
Concen: 9.359 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

Tgt Ion: 106 Resp: 61878
Ion Ratio Lower Upper
106 100
91 205.8 161.5 242.3

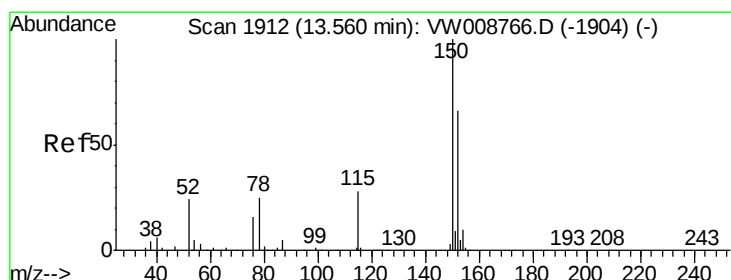
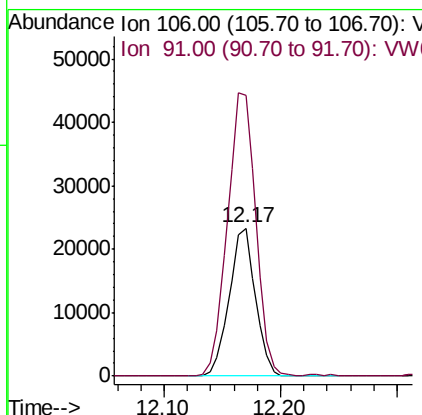
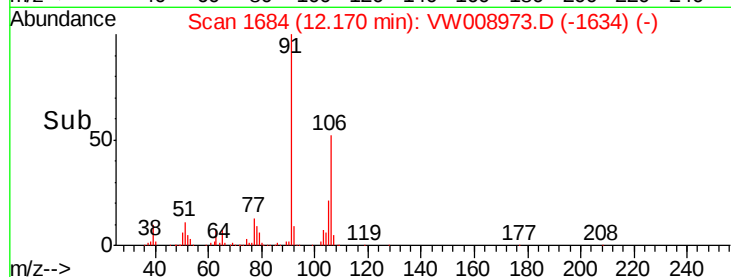
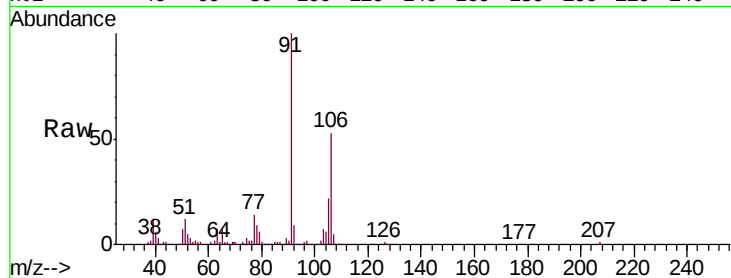




#69
o-Xylene
Concen: 5.927 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

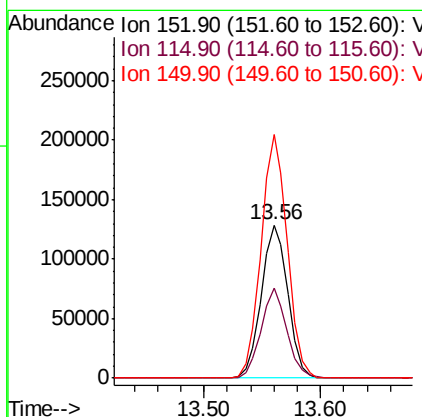
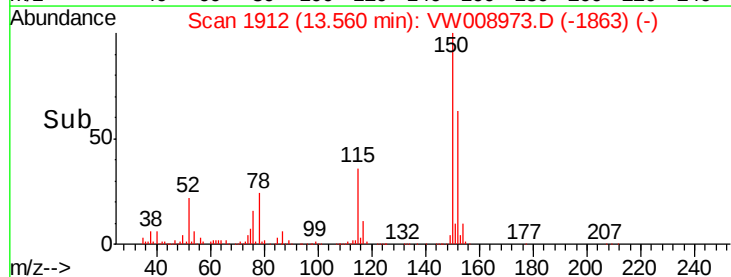
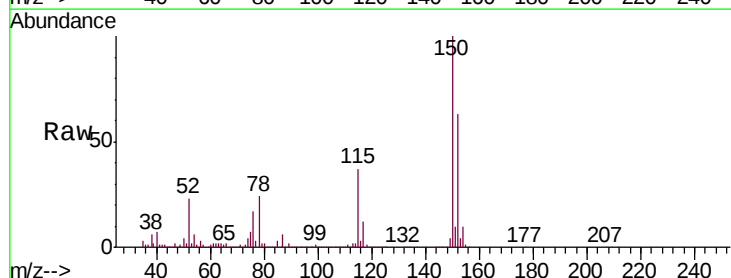
Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-A

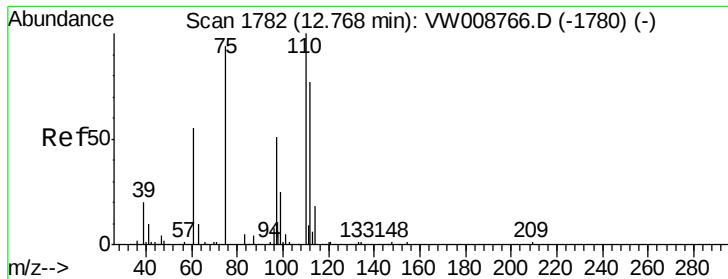
Tgt Ion:106 Resp: 36781
Ion Ratio Lower Upper
106 100
91 206.0 106.2 318.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

Tgt Ion:152 Resp: 202915
Ion Ratio Lower Upper
152 100
115 57.2 28.6 85.8
150 157.7 0.0 348.0





#76

1,2,3-Trichloropropane

Concen: 63.677 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampleId :

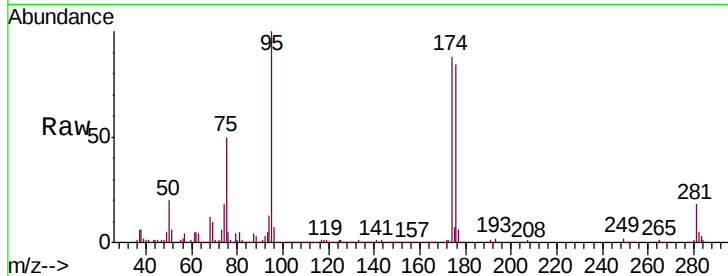
JC-03-030119-A

Tgt Ion: 75 Resp: 106680

Ion Ratio Lower Upper

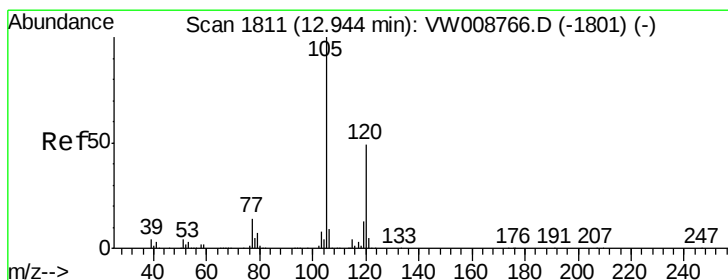
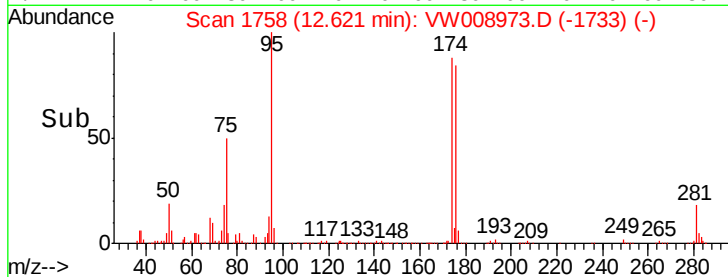
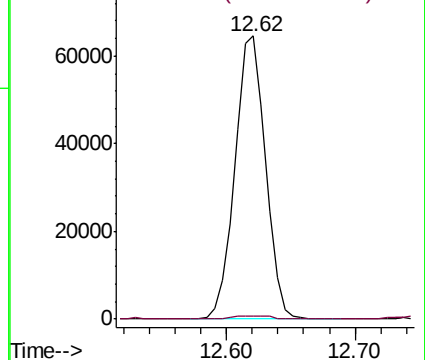
75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#80

1,3,5-Trimethylbenzene

Concen: 3.280 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW008973.D

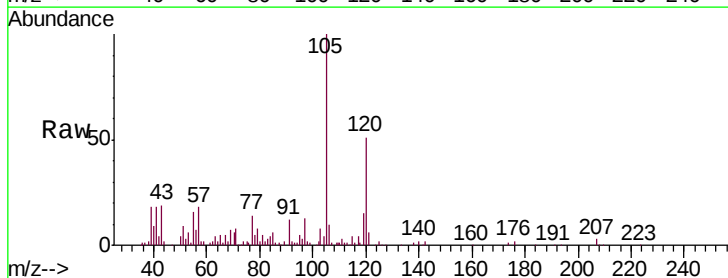
Acq: 04 Mar 2019 21:30

Tgt Ion: 105 Resp: 39655

Ion Ratio Lower Upper

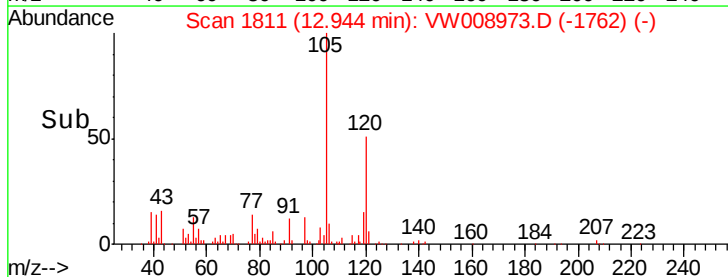
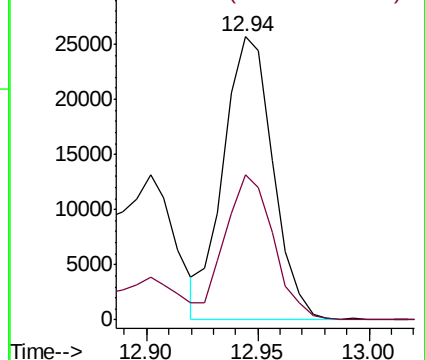
105 100

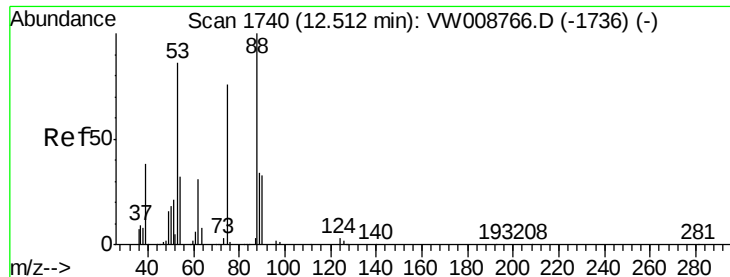
120 50.5 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 154.803 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008973.D

Acq: 04 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampleId :

JC-03-030119-A

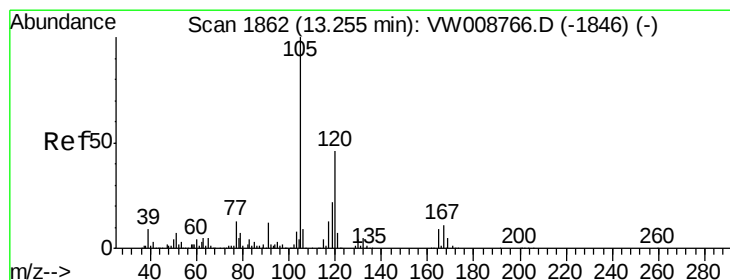
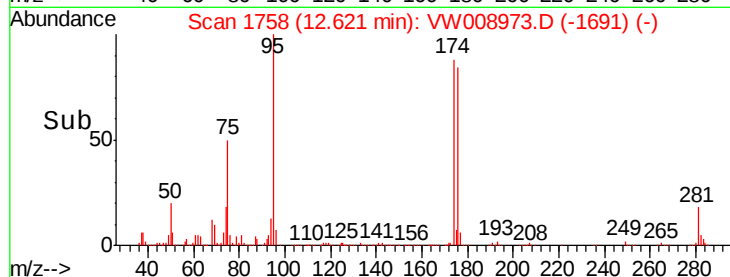
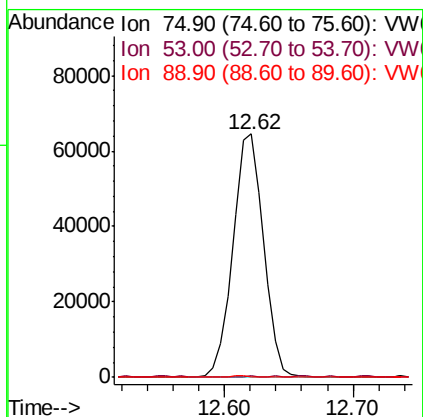
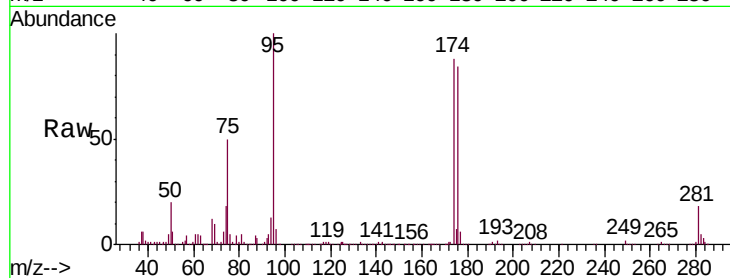
Tgt Ion: 75 Resp: 106680

Ion Ratio Lower Upper

75 100

53 0.3 88.2 132.2#

89 0.4 39.5 59.3#



#84

1,2,4-Trimethylbenzene

Concen: 4.403 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.00 min

Lab File: VW008973.D

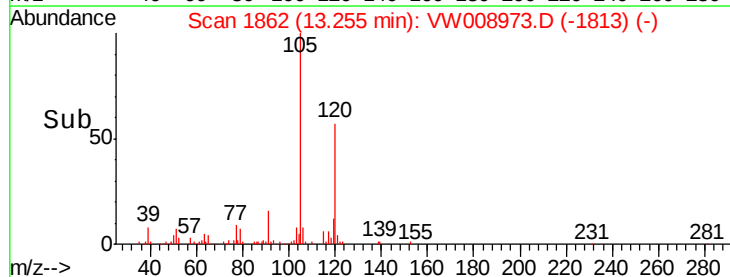
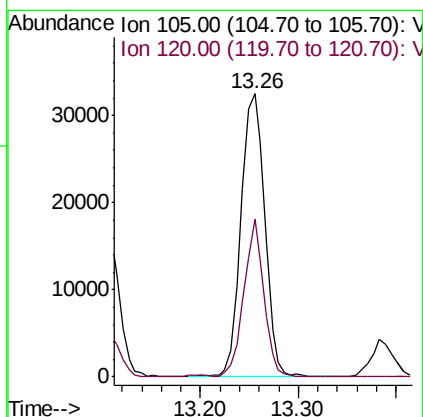
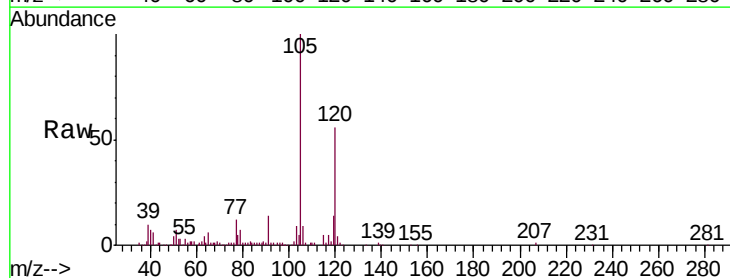
Acq: 04 Mar 2019 21:30

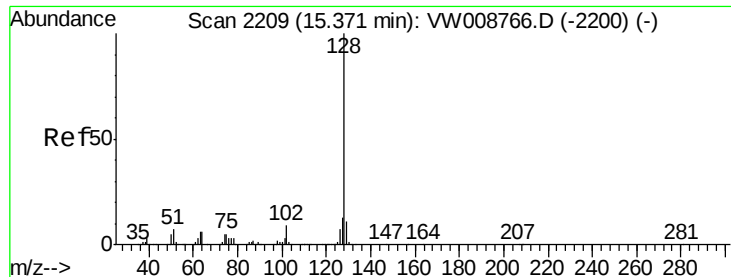
Tgt Ion: 105 Resp: 55093

Ion Ratio Lower Upper

105 100

120 46.6 22.8 68.4





#95
Naphthalene
Concen: 10.260 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW008973.D
Acq: 04 Mar 2019 21:30

Instrument :
MSVOA_W
ClientSampleId :
JC-03-030119-A

Tgt Ion:128 Resp: 76489
Ion Ratio Lower Upper
128 100
127 13.4 10.8 16.2
129 11.6 8.7 13.1

